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Correction and Clarification of "A Note on Exterior Dirichlet Problems and an Application to Boundary Layer Theory"

In the introduction to the paper (Vol. 1, No. 1 (1965), 95-113), it was asserted in two places that a certain exterior problem for the Navier-Stokes system had a solution. Such a theorem is not yet available in two space dimensions (the case considered); therefore, the assertions should be deleted.

It is stated in Section 4 and implied in the introduction that solutions of the Navier-Stokes system are often assumed approximable by solutions of "corresponding" boundary layer problems. This was stated by way of motivation for the boundary layer problem treated in the paper. Although this problem is proved in Section 3 to have an exact solution, the Navier-Stokes problem to which it corresponds has no such existence theorem available; therefore, technically speaking, the assumption mentioned above should in this case be fortified with the assumption that a solution of the latter problem exists.

The correspondence between the two problems spoken of here is the standard one of boundary layer theory and is explained in Section 4. It is also mentioned there that the standard "higher order boundary layer approximations" can be treated (existence proved) in the same manner.

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